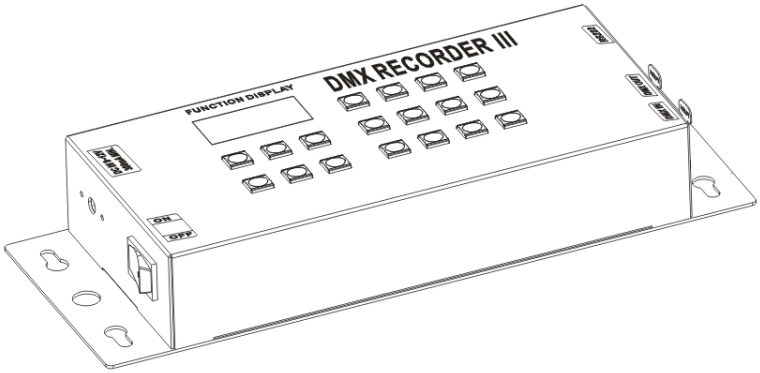
USER MANUAL



CA-REC-III

DMX RECORDER

User Guide

Please read these instructions carefully before use

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1. Features

- One DMX input for recording the DMX 512 signal in real time.
- “Shows” can be store, play speed can be adjusted
- All DMX 512 signals files can store in the SD card and upload to PC or network.
- PC can remote control the recorder by connected with RS-232 serial port
- One output protected by photoelectric isolated, ensure the output of the controller will not be interfered or interregnum.
- Two record modes: record SEQU mode and STEP mode.
- Four play modes: 1. Loop SEQU mode; 2. Solo SEQU mode; 3. Auto STEP mode; 4. Audio STEP mode.
- Built-in clock can timing running the show, 3 times a day, up to 21 times one week.
- Display the SEQU running time when playing SEQU
- Display the STEP number when playing STEP
- The software can be updated via the SD card.

NOTE: Some basic knowledge of DMX is required to fully utilize this unit.

2. General Instructions

Please read the user manual carefully, as it includes important information regarding details of operation, maintenance, and technical data. Keep this manual with the unit for future consultation.

WARNINGS！

- ♦ DO NOT near any inflammable liquids, water or metal objects inside the unit.
- ♦ Should any liquid be spilled on the unit, DISCONNECT the power immediately.
- ♦ STOP using the unit immediately in the event of serious operation problems and contact with your local dealer for a check or contact us

directly.

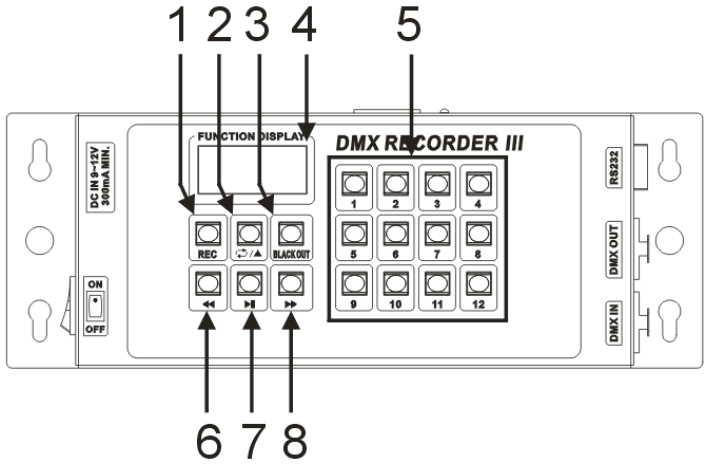
- DO NOT open the unit--there are no user serviceable parts inside.
- NEVER try to repair the unit by yourself. Repairs by unqualified party could cause damage or faulty operation.

CAUTIONS !

- After removed the packaging, please check that the unit is NOT damaged in any way. If in doubt, DON'T use it and contact an authorized dealer.
- Packaging material (plastic bags, polystyrene foam, nails, etc.) MUST NOT be left within children's reach, as it can be dangerous.
- This unit must only be operated by adults. DO NOT allow children to tamper or play with it.
- NEVER use the unit under the following conditions:
  In places subject to excessive humidity.
  In places subject to vibrations or bumps.
  In places with a temperature of over 45℃/113 F or less than 2℃/35.6 F.
  Protect the unit from excessive dryness or humidity (ideal conditions are between35% and 80%).
- DO NOT dismantle or modify the unit privately.

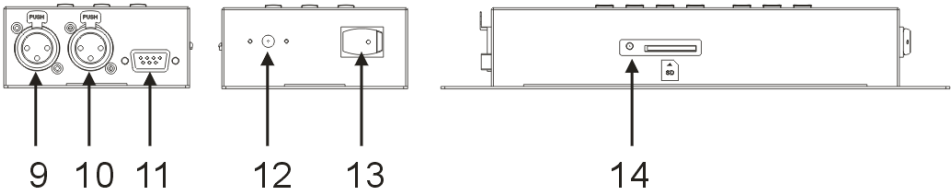
3. Overview

3.1 Front View



1 REC Button	Record ” show”
2 / Button	Loop/Single/Audio/ Setting STEP
3 BLACK OUT Button	Black out all the lighting fixtures
4 LCD Display	display the present status and the available option
5 No. Button 1-12	Store or play the show
6 Button	Up; Slow down
7 Button	Play; Pause; Menu (hold it for about 3 seconds);
8 Button	Down; Speed up

3.2 Rear View



9 DMX IN	Input the DMX signal via the 3-pin XLR cable
10 DMX OUT	Output the DMX signal via the 3-pin XLR cable
11 RS-232 Serial port	Connected with PC to control the recorder by RS-232 serial port
12 Mains Power	Connect with the power cord
13 Power Switch	Switch on/off the unit
14 SD Card slot	Insert SD card

4. Operation Guide

DMX-RECORDER III is a real time transcription machine, it's function with real-time record DMX signal, store and play as files in SD card so that you can edit and replay it afterwards. DMX-RECORDER III can be used as an recorder or a storable controller. Backup when rehearsal, then connect it to the controller and run the DMX-RECORDER synchronously, when the controller power off or has no signal output, then the DMX-RECORDER will output automatically until the controller resumes normal. Also you can remote control it by your own PC with our special software by connected with RS 232. DMX-RECORDER III can be also used in the unmanned scene such as outdoor lighting, outdoor wall lighting. Record the signal you want and set the time, then it will control the lights working automatically.

4.1 Startup View

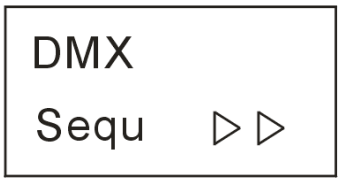
Turning on the controller it will enter to a regular run mode as the picture showing on the right. Press relevant button to enter record, play or function menu. Long press the ⏯ button to enter into the main menu.

4.2 Record mode

4.2.1 Record SEQU

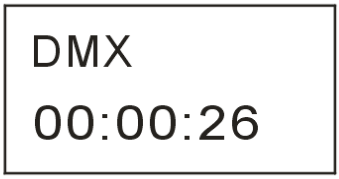
It can record two format files, SEQU files and STEP files.

- Turn on the controller, press the “REC” button to enter record mode, the red LED indicator will light up, and “DMX SEQU▶▶” will show on the display. Then you select the file you want to store in from the right side 1-12 buttons. The lights flash means they have files in it. You can choose the button doesn’t light up. If you choose the button with program in it. The display will show YES/NO on it, you can adjust it by ◀◀ or ▶▶ button. After you confirm your selection, the display will show 00：00：00, that means you have started record SEQU now.



- Press the button ⏯ to start or pause the record.

The display will show the record time on it.

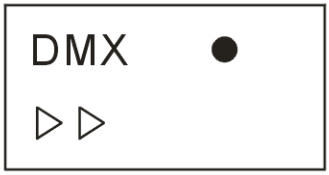


- When the show you desired is recorded you can hold the button ⏯ for 2 seconds to exit.

4.2.1 Record STEP

- Turn on the controller, pressing REC button enter into record mode, its red LED indicator will light up. The display will show DMX SEQU ▶▶ or DMX

STEP ◄◄, you can adjust it by ◄◄ or ►►



- Then you select the file you want to store in from the right side 1-12 buttons. The lights flash means they have files in it. You can choose the button doesn't light up. If you choose the button with program in it. The display will show YES/NO on it, you can adjust it by ◄◄ or ►► button. After you confirm your selection, the display will show STEP 000 that means you have started record STEP now.
- Use the controller to adjust the effect then press ⏯ button to save one STEP, the display will show STEP 001.
- You can insert STEP between STEPs, then press ⏯ button to save. You can save up to 999 STEPs at most.

- Press REC button to exit record mode.

Note: 1) when there is DMX signal to input, the display will show DMX and flash all the time; if there is no DMX signal to input, the display will show DMX, but not flashing.

2) When pressing the "REC" button, the LED indicators above the No. button 1-12 will light up and flash, which means a show has already been stored in it, if you press the button again, and then the former show will be covered.

4.3 Play mode

4.3.1 Play SEQU

CA-REC III can play SEQU and STEP. If play SEQU file, you can only open

one file at a time; If play the STEP file, you can turn on 4 simultaneously, the running speed and fade time can be adjustable. STEP can also be controlled by Audio.

- Turn on the controller, press button ⏯ to enter play mode, the display will show "DMX Sequ ▶▶ " The LED indicators above the No. button 1-12 will light up and flash that means there is SEQU stored in it.

- Press the button which you would like to play; the controller will play SEQU automatically. If there is no file stored on the button, the display will show "NO FILE".
- You can slow down or speed up the play, by pressing UP/DOWN BUTTON when playing SEQU.
- Press the 🔁/▲ to enter into cycle play, the LED indicator above the 🔁/▲ button will light up. When the LED indicator is off, the show will be back to solo run mode again.
- Press button ⏯ to pause or play the show or hold it for about 2 seconds can exit the play mode and back to menu.

Note: You can only play one SEQU at a time, if you turn on a new SEQU, the current running SEQU will be recovered.

4.3.2 Play STEP

- Turn on the controller, press button ⏯ to enter play mode, the display will show "DMX Sequ▶▶**".** You can adjust it to "DMX STEP" by pressing◀◀ or ▶▶button. Then the LED indicators above the No. button 1-12 will light up and flash that means there is STEP stored in it.

- Press the button which you would like to play; the controller will play STEP automatically. If there is no file stored on the button, the display will show “NO FILE”.

- You can adjust the play time, fade time or audio sensitivity by pressing UP/DOWN button when playing STEP.
- Hold the button for about 2 second to enter into setting mode. The display will show SPEED 1.0S. You can adjust the time by ◄◄ or ►► button. You press the LOOP button again; the display will show FADE 100%. You can adjust it by ◄◄ or ►► button. You press the button again, the display will show SOUND 0** on it. Then you can adjust the audio sensitivity by ◄◄ or ►► button. Hold the button for about 2 second to exit the setting mode.
- The LED indicator lights up when play STEP that means it play by time. If its LED indicator is off that means it play by audio.
- Press button ⏯ to pause or play the STEP or hold it for about 2 seconds can exit the play mode and back to menu.

Note: You can play up to 4 STEPs at a time simultaneously.

5. Menu

Hold the button ⏯ for 2 seconds can go back to function menu.
The main menu includes the following 7 settings:

1. **Set date**
2. **Set time**
3. **Set clock**
4. **File info**
5. **Start status**

6. **Default Set**
7. **Version**

5.1 Set date

- Enter menu, using UP/DOWN button to scroll through the menu and choose the date set and confirm it by pressing ⏯.
- Use UP/DOWN button to add or minus the value, pressing button ⏯ to confirm the selected and move to the next.
- After the setting, press button ⏯ to confirm and exit the date set and enter the time setting.

Note: This operation should be finished at one time; otherwise, you have to restart again.

5.2 Set Time

- Enter setting time menu
- Press UP/DOWN button to change the time format, 12h or 24h, then pressing button ⏯ to confirm and move to the exact time setting.
- Press UP/DOWN button to change the time, then press button ⏯ to confirm and exit.

5.3 Set Clock

You can set timer week, timer number, start up time, shutdown time, run time, on or off time. You can set a maximum of 21 times a week, 3 times per day.

- Enter Set Clock menu
- If you want to set the Audio Clock, you should keep the 🔁/▲ LED indicator off. In Audio mode, it can only play STEP files.
- Press ⏯ when the corresponding position will flash, at this time you can use UP/DOWN button to change the days like Mon, Tue, etc, then pressing button ⏯ to confirm and the position will stop flashing. Next press ⏭ button moving to timer.
- Select the file setting, press ⏯ button. Then select the type of play file

SEQU or STEP by pressing ◄◄ or ►►button. Then you press the button 1-12 whose indicator lights up. If you choose play SEQU file, you can only select one file. If you choose to play STEP file, you can select 4 at most. Press ⏯ button to confirm and press the DOWN button to move to STATUS. Press ⏯ button, then press◄◄ or ►►button to choose Disable or Enable. Then press ⏯ button move to SAVE. You can choose YES to save the setting or NO to quit the operation by ◄◄ or ►►button.

- Repeat the steps above to finish the relative setting, such as timer, on time, off time, selecting file, disable or not, save or not. At last, press button ⏯ to confirm and exit.
- Note: Only when the corresponding position flashing, can be revised using the UP/DOWN button, and pressing button ⏯ to confirm and it would stop flashing. Press the ◄◄ button can go back to last item.

5.4 File info

You can check the 24 files in the SD card by this option.

- Go back to function menu, and use the UP/DOWN button to select the File info.
- The former 12 files is SEQU files with the suffix COD. You can check file time of each SEQU file. The later 12 files are STEP files with the suffix POD. You can check STEP number to them. Press ⏯ button to confirm and exit.

5.5 Start status

You can start status in Normal Play or Last Status.

- Enter to the Start status menu
- Press UP/DOWN button to select Normal play or Last status(continue to play from last time when it opens next time)
- Pres⏯ to confirm and exit the menu.

5.6 Default Set

You can reset the controller

- Enter to the Default Set menu
- Press UP/DOWN button to select YES or NO, Press ⏯ to confirm and

exit the menu.

5.7 Version

You can check the firmware version by pressing⏯.

6. PC control

Connect the unit with the PC by RS-232 serial port. You can download the RS-232 protocol from our website for free. Then you can design your desired user operation interface on the PC and embed it to your program. With the protocol, you can control the unit from the user operation interface on the PC.

7. Update the software with SD card

Take out the SD card, then download the latest software from our website for free to SD:\CA-REC3 (the file name should be established by yourself), insert the SD card to the slot, power off the recorder, hold REC + ⏩and button 12 synchronously, then power up the unit till the information "**Find File…"** showing on the LCD display, for about 5 seconds , **"Please wait"** will display on the LCD screen, the controller will test if the SD card stick well and then update the new software, it will take you about 10 seconds, please don't move the SD card or cut off the power in order to avoid update frustrated or damage the SD card. When **"Please reboot"** is showing on the LCD, which means the firmware updated successfully. Then restart the unit by pressing the power switch.

NOTICE：The format of the SD card should be FAT16 or FAT32, but not NT

Technical Specification

Power Input	DC 9-12V
DMX signal	3 pin XLR
Dimensions	482x102x44mm
Weight	1.7kg

Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55103-1:199601-2; EN55103-2:1996;
EN61000-3-2:2000+A2:2005;
EN61000-3-3:1995+A1:2001+A2:2005.

&

Harmonized Standard

EN 60598-1: 2004
IEC 60598-1:2003+ corrigendum 2004
Part 1:General requirements and test

Following the provisions of the low voltage directive 73/23/EEC and 93/68/EEC

Innovation, Quality, Performance